

Math Problem

To find the value of $f(-2 - g(3))$, we first need to calculate $g(3)$.

Given:

$$g(x) = x^2 - 3$$

Substituting $x = 3$ into the equation:

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

Now we can compute $-2 - g(3)$:

$$-2 - g(3) = -2 - 6 = -8$$

Next, we need to evaluate $f(-8)$:

Given:

$$f(x) = \frac{3}{4}x + 10$$

Substituting $x = -8$ into the equation:

$$f(-8) = \frac{3}{4}(-8) + 10 = -6 + 10 = 4$$

Thus, the value of $f(-2 - g(3))$ is:

$$\boxed{4}$$